

# —Standard Valves—

4020-A Valve  
-B Valve  
-C Valve

## 4020-A, 4020-B, 4020-C VALVES

TRIODES.

### SPECIFICATION.

#### Cathode.

Oxide coated filament.  
Constant current type.

#### Base.

4020-A Medium 4-pin bayonet thrust.  
4020-B Standard British 4-pin.  
4020-C Medium 4-pin bayonet thrust, grid connected to top cap.

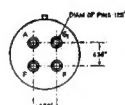
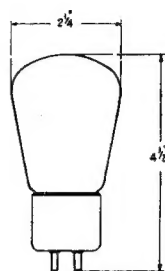
#### Dimensions.

		4020-A	4020-B	4020-C
Overall length	ins.	4½	4 9/16	5
	cms.	11.4	11.6	12.7
Maximum diameter—	ins.	2¼	2¼	2¼
	cms.	5.7	5.7	5.7
Net weight	lbs.	0.14	0.14	0.14
	gms.	65	65	65

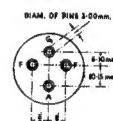
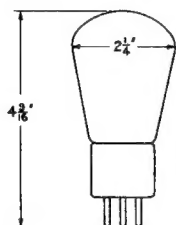
#### Constants.

Filament current		0.25 amps.		
Nominal filament voltage		2 volts		
* Impedance		50,000 ohms		
* Amplification factor		30		
* Mutual conductance		0.6 mA per volt.		
Grid-anode capacity	4020-A	4020-B	4020-C	
	6.3	6.3	7.9	μμF.
Anode-filament capacity	4.4	4.4	5.3	μμF.
Grid-filament capacity	6.2	6.2	5.8	μμF.

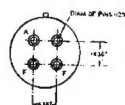
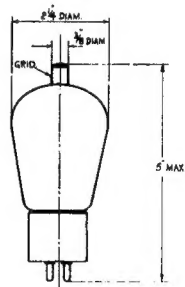
\* at anode current of 0.8 mA.



4020-A



4020-B.



4020-C

V.4020-ABC.1  
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## TYPICAL OPERATING CONDITIONS.

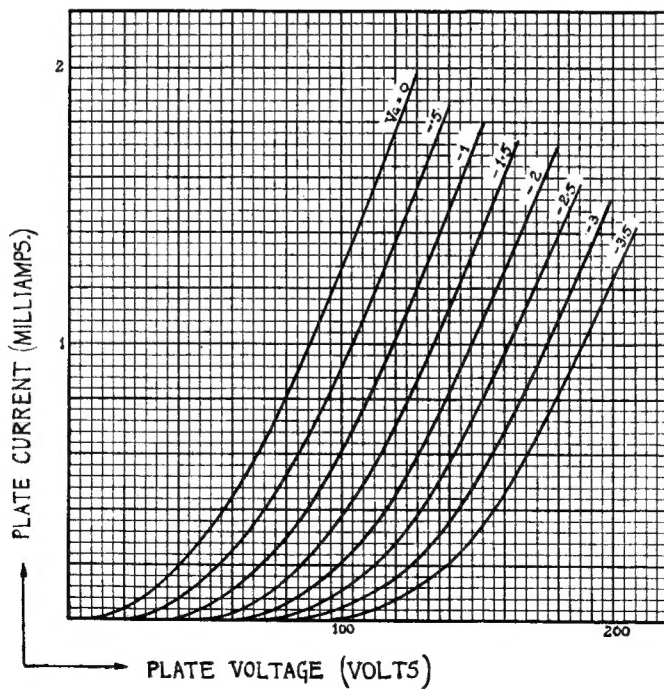
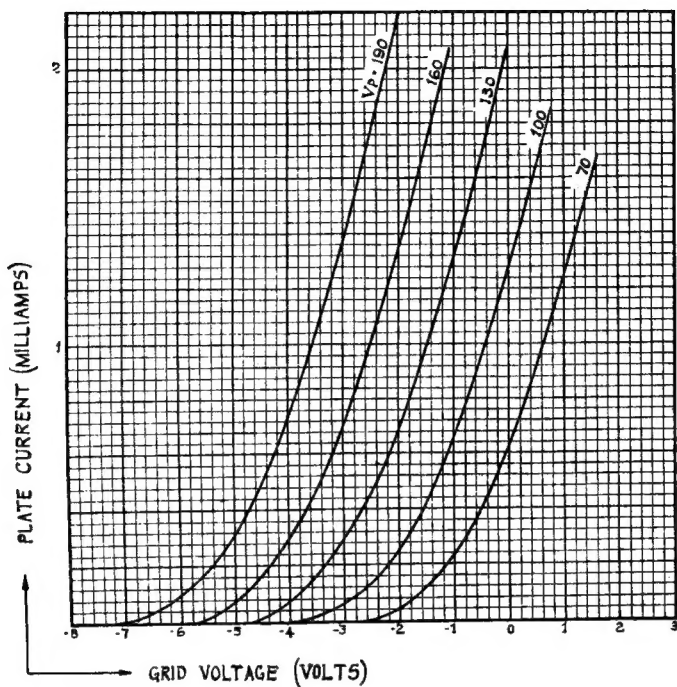
Anode voltage volts	Grid Bias volts	Anode current mA.	Anode Resistance ohms	Load ohms	Output voltage peak volts	Total Harmonic db below fundamental
130	—1	1.26	43,000	43,000 86,000 129,000	18.5 20.3 20.6	34.5 37 37
130	—1.5	0.92	46,000	46,000 92,000 138,000	21.4 25.4 26.2	30 35.3 37
130	—2	0.64	52,000	52,000 104,000 156,000	12.1 14.8 17.6	21.7 28 30.5
160	—1.5	1.63	41,000	41,000 82,000 123,000	24 30.2 35	35.2 38.2 38.5
160	—2	1.28	44,000	44,000 88,000 132,000	37 42 45.6	29 35 36

Note :—Decreasing the output by N db below the value given in the table improves the harmonic level by N db.

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